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AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows:

1. (Withdrawn) An in vivo camera system comprising:

an imager having a variable frame capture rate for producing frames;

at least one sensor for measuring a physical property relatable to the motion of said

camera system;

a data processor in communication with said sensor for determining a frame capture

rate in response to output of said sensor; and

a controller for providing said determined frame capture rate to said imager.

2. (Withdrawn) A system according to claim 1, wherein said sensor is an

accelerometer.

3. (Withdrawn) A system according to claim 2, and including an integrator in

communication with said accelerometer for generating the velocity of said in vivo

camera system.

4. (Withdrawn) A system according to claim 1, wherein said sensor is a pressure

sensor.

5. (Withdrawn) A system according to claim 1, wherein said sensor is an induction coil

and said in vivo camera system is moving in a magnetic field.

6. (Withdrawn) A system according to claim 1, wherein said sensor is an ultrasound

transducer.

7. (Withdrawn) An in vivo camera system comprising:

an imager having a variable frame capture rate for producing frames;

a storage device for storing frames captured by said imager;

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an image processor for calculating the required frame capture rate from at least two

frames; and

a controller for providing said calculated frame capture rate to said imager.

8. (Currently Amended) A display system for displaying the output of an in vivo

camera system, the display system comprising:

a frame storage unit for storing data of frames of output of said camera system;

an image processor for correlating frames the data of said output to determine the

extent of their similarity and for generating a frame display rate therefrom, wherein

said frame display rate is slower when said frames data are generally different and

faster when said frames data are generally similar; and

a display unit for displaying said frames received from said frame storage unit at

said-frame display rate.

9. (Currently Amended) A display system according to claim 8 wherein said at least

two frames are two consecutive frames.

10. (Currently Amended) A display system according to claim 8 wherein said at

least two frames are two non-consecutive frames.

11. (Currently Amended) A display system according to claim 8 further comprising

a controller in communication with said frame storage and said image processor,

wherein said controller varies said display rate of said display unit.

12. (Withdrawn) A system according to claim 1 further comprising a display

system comprising:

a frame storage unit for storing at least two frames of output of said camera system;

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an image processor for correlating at least two frames of said output to determine

the extent of their similarity and for generating a frame display rate correlated with said

similarity, wherein said frame display rate is slower when said frames are generally

different and faster when said frames are generally similar; and

a display unit for displaying said frames received from said frame storage at said

frame display rate.

13. (Withdrawn) An in vivo camera system according to claim 7 further comprising

a display system comprising:

a frame storage unit for storing at least two frames of output of said camera system;

an image processor for correlating at least two frames of said output to determine

the extent of their similarity and for generating a frame display rate correlated with said

similarity, wherein said frame display rate is slower when said frames are generally

different and faster when said frames are generally similar; and

a display unit for displaying said frames received from said frame storage at said

frame display rate.

14. (Withdrawn) A method for varying the frame capture rate of a series of frames

generated by an in vivo camera system, the system comprising an imager, the method

comprising the steps of:

storing said frames in a storage device;

correlating changes in the details of at least two frames;

changing said frame capture rate to a predetermined frame capture rate according to

the degree of change between said at least two frames; and

communicating said required frame capture rate to said imager.

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15. (Withdrawn) A method according to claim 14 wherein said at least two frames

are consecutive frames.

16. (Withdrawn) A method according to claim 14 wherein said at least two frames

are non-consecutive frames.

17. (Withdrawn) A method for varying the frame capture rate of a series of frames

generated by an in vivo camera system, the system comprising an imager, the method

comprising the steps of:

measuring a physical quantity experienced by said camera system;

converting said physical quantity to a velocity of said camera system;

correlating said velocity with a predetermined frame capture rate; and

communicating said predetermined capture rate to said imager.

18. (Withdrawn) A method according to claim 17, wherein the step of measuring

includes the steps of measuring acceleration and generating velocity data from said

acceleration data.

19. (Withdrawn) A method according to claim 17, wherein the step of measuring

includes the step of measuring acceleration.

20. (Withdrawn) A method according to claim 17, wherein the step of measuring

includes the step of measuring pressure.

21. (Withdrawn) A method according to claim 17, wherein the step of measuring

includes the step of measuring induced current when the camera system is moving in a

magnetic field.

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22. (Withdrawn) A method according to claim 17, wherein the step of measuring

includes the step of measuring the motion of said camera system with an ultrasound

transducer.

23. (Currently Amended) A method for varying the a frame display rate of a series

of frames generated by an in vivo camera system, the method comprising the steps of:

storing said frames in a storage device;

correlating changes in the details of at least two frames; and

communicating said required frame display rate to said storage device and a display

unit.

24. (Original) A method according to claim 23 wherein said at least two frames are

consecutive frames.

25. (Original) A method according to claim 23 wherein said at least two frames are

non-consecutive frames.

26. (Currently Amended) A method according to claim 23 wherein said step of

communicating said required frame rate comprises the step of requiring the display of

at least one frame a predetermined number of times comprising displaying one frame

repeatedly.

27. (Currently Amended) A method according to claim 23 wherein said step of

communicating said required frame rate comprises the step of comprising eliminating

display of at least one a frame.

28. (Withdrawn) An in vivo camera system according to claim 1, and also including

an antenna array, said array receiving data from said sensor and communicating said

data to said data processor.